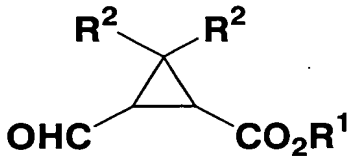
Claims

1. A production method of formylcyclopropanecarboxylate compound of formula (2):

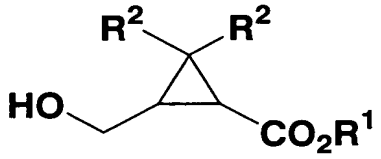


(2)

wherein R^1 and R^2 are as defined below,

which comprises reacting

a cyclopropanecarboxylate compound of formula (1):



(1)

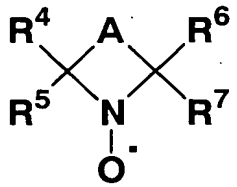
wherein and R^1 represent a linear, branched or cyclic alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted aralkyl group,

R^2 represents a hydrogen atom or a methyl group,

with at least one oxidizer selected from the group consisting of hypochlorite, N-halosuccinimide, a trichloroisocyanuric acid, and iodine,

in the presence of a nitroxy radical compound.

2. A production method according to claim 1, wherein the nitroxy radical compound is a nitrocy radical compound of formula (3):



(3)

wherein R^4, R^5, R^6 and R^7 are the same or different and represent

a linear, branched or cyclic lower alkyl group, or
a linear or branched lower alkenyl group,
an aryl group, an aralkyl group, or an acyl group, and
A represents the group represented by
$-CH_2COCH_2-$, $-COCH_2(CH_2)_n-$, or $-CHXCHY(CHZ)_n-$,
wherein n represents 0 or 1,
X , Y and Z are the same or different and represent a hydrogen atom, a hydroxyl group, a halogen atom, an amino group, an acylamino group, a carbamoyl group,
a linear, branched or cyclic lower alkoxy group,
a lower alkenyloxy group, an aryloxy group,
an aralkyloxy group, or an acyloxy group.

3. A production method according to claim 2, wherein nitroxy radical compound of formula (3) is 2,2,6,6-tetramethylpiperidine-1-oxyl.

4. A production method according to claim 1 or 2, wherein the reaction is conducted at a pH range of 6-13.

5. A production method according to claim 4, wherein the reaction is conducted at a pH range of 8-10.

6. A production method according to claim 4, wherein the reaction is conducted in the presence of hydrogencarbonate or hydrogenphosphate.

7. A production method according to claim 5, wherein the reaction is conducted in the presence of hydrogencarbonate or hydrogenphosphate.

8. A production method according to claim 1 or 2, wherein the oxidizing agent is hypochlorite.